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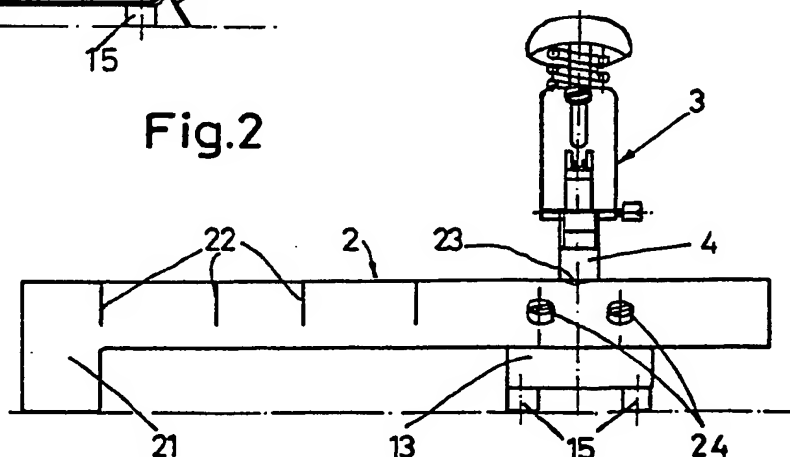
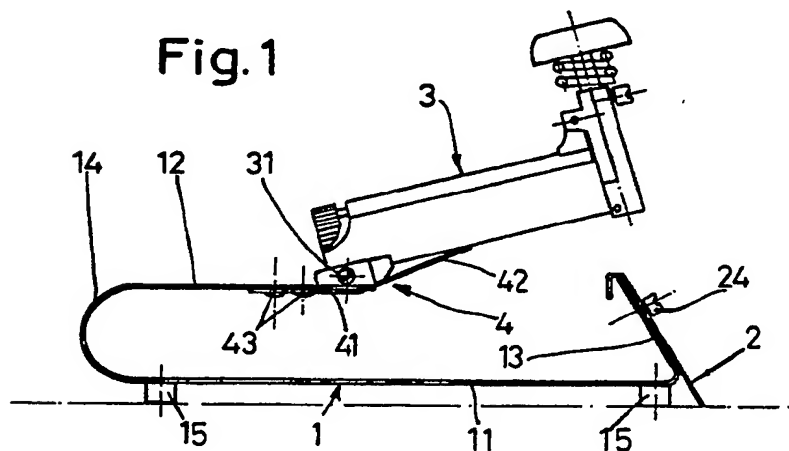
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(54) Improved stapling machine

(57) Improved stapling machine which is constructed from a support base (1) with a one-piece configuration capable of flexing and which defines two side arms (11, 12), one for support which forms a slightly sloping anvil (13) and another for carrying the stapling machine head/staple holder (3), which are connected together via a curved connection portion (14) and a guide rule (2), fitted on said sloping anvil (13) and defining the point-bending cavity (23), opposite the stapling head (3). Marks 22 facilitate alignment of successive workpieces so that the staples are inserted at identical positions.



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Title: Improved Stapling Machine

The present invention relates to an improved stapling machine.

Stapling and paper-fastening machines have been known for a long time, and at present there are currently various types of stapling machines, e.g. desk type, plier type etc.. However, these stapling, paper fastening machines are unsuitable for some uses, e.g. when it is required to staple volumes of catalogues, leaflets, books or the like.

It is an object of the present invention to provide a stapling, paper fastening machine whose configuration makes it possible to resolve the current limitations and, at the same time, makes it possible that identical items (for example, in the same series) can have the staple(s) arranged in exactly the same place.

The present invention provides a stapling machine comprising a flexible support base of one piece configuration defining two side arms, one side arm for support which forms a sloping anvil and the other side arm for carrying a stapling machine head/staple holder, the side arms being connected together via a curved connecting portion and a guide rule, fitted on said sloping anvil and defining the staple point-bending cavity opposite the

stapling head.

It is preferred that the stapling machine head/staple holder is mounted so as to articulate on the support base and includes a spring plate fixed to the support base and on which the stapling machine head/staple holder rests, tending to remain in one position.

It is also preferred that said guide rule is constructed as a one-piece body arranged transversely on the sloping anvil via one end zone and defining a support at the opposite end zone, positioning shapes being distributed over its entire width so that the staples can be accurately positioned on identical items whilst at the same time avoiding tilting of said rule during stapling.

The present invention will now be described by way of example with reference to the following drawings, in which:

Figure 1 shows a side elevation of a stapling machine according to one embodiment of the invention;

Figure 2 shows a front elevation corresponding to Figure 1.

The principal elements of the stapling machine and its working arrangement may be seen in both figures. A non-limiting exemplary embodiment of the present invention is described below and other embodiments in which

additional changes are introduced but which do not detract from its basic principle are in no way excluded.

Referring now to the drawings, the stapling machine shown therein comprises a support base 1, a guide rule 2 and stapling machine head/staple holder 3.

The support base 1 is a one-piece body which, in side elevation, has a generally "U"-shape having an arcuate connecting portion 14 and side arms 11, 12, which are of unequal length, arranged horizontally. A sloping anvil 13 is formed at the end of the lower, larger horizontal side arm 11; supports 15 being arranged underneath this side arm 11.

The stapling machine head/staple holder 3 is mounted at the end of the upper, side arm 12 and is articulated at 31 so that the head 3 may rotate with respect to the support 1 and the side arm 12 may flex by virtue of the curved configuration of the connecting portion 14.

The head 3 is held in one position with respect to the support 1 by virtue of a spring plate 4 attached to the side arm 12. The spring plate 4 comprises two zones 41, 42 each in a different part and is fitted via zone 41 to the side arm 12 of the support 1 by means of, for example, screws 43, the end of the other zone 42 supporting the head

3 so as to retain its position whilst there is no actuating force.

The guide rule 2 is a one-piece, extended body which is arranged horizontally. At one end zone it is fixed to the sloping anvil 13 by means of, for example, screws 24 and at the opposite end zone a support 21 has been provided which avoids tilting. The guide rule 2 forms the point-bending cavity 23 for the staples - opposite the stapling zone of the head 3 and, of course, on the anvil 13 - and, positioning shapes 22 have been provided over the entire width which serve for aligning articles to be stapled. Consequently, objects with an identical format have the staple(s) arranged in one and the same zone.

The stapling machine head/staple holder 3 is not described in greater detail since it is known per se and, therefore, is not a fundamental subject of the present invention.

Claims

1. A stapling machine comprising a flexible support base of one-piece configuration defining two side arms, one side arm for support which forms a sloping anvil and the other side arm for carrying a stapling machine head/staple holder, the side arms being connected together via a curved connecting portion; and guide rule, fitted on said sloping anvil and defining the staple point-bending cavity opposite the stapling head.

2. A stapling machine as claimed in claim 1, wherein the stapling machine head/staple holder is mounted so as to articulate on the support base and includes a spring plate fixed to the support base and on which the stapling machine head/staple holder rests, tending to remain in one position.

3. A stapling machine as claimed in claim 2, wherein said guide rule is constructed as a one-piece body arranged transversely on the sloping anvil via one end zone and defining a support at the opposite end zone and has positioning shapes distributed over its entire width so that the staples can be accurately positioned on identical items whilst at the same time avoiding tilting of said rule during stapling.

4. A stapling machine which is substantially as herein described in relation to the accompanying drawings.